

**Mental Health, Developmental Disabilities and
Substance Abuse Related Admissions in Community
Emergency Departments, Quarterly Report**

Third Quarter, SFY 2007-08

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The Report

The Mental Health, Developmental Disabilities, and Substance Abuse Related Admissions in Community Emergency Departments Report is in response to the General Statute 112C-147.1.1 Section 10.49(r). The current report presents information for the third quarter of 2007-08, January 1 to March 31, 2008.

The document summarizes the utilization of community hospital emergency departments of the state by individuals with a behavioral health diagnosis (mental health and substance abuse). Consumers with developmental disabilities presenting at an emergency department during the quarter were fewer than 10 for almost all LMEs and this information has been suppressed for data confidentiality. The only exception to this is Wake LME where 13 developmental disability consumers were admitted to emergency departments during this quarter. The current report has also included a table (Table 3) which shows the counts and rates of all behavioral health admissions by county.

The Emergency Department Admissions information gathered through the North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) is received by the Division of Mental Health, Developmental Disabilities and Substance Abuse Services through a data sharing agreement with the Division of Public Health. The data are provided to the Division of Mental Health as an aggregated file, providing the total number of admissions by disability status, age group and gender. The consumers that are represented in the report are those who had a behavioral health, ICD-9¹ code, indicating their diagnosis.

2. Source of Information

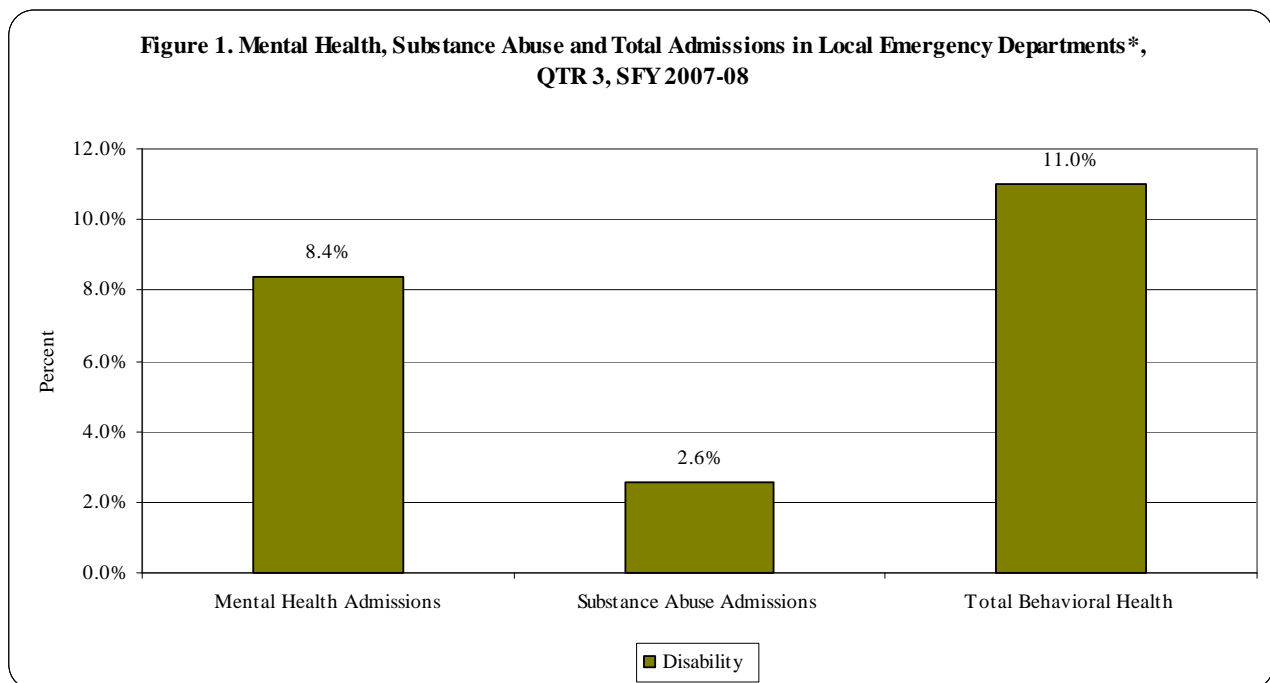
The information presented has been collected through NC DETECT, a statewide epidemiological data collection system. The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) is the early event detection system of the North Carolina Public Health Information Network. NC DETECT was created by the North Carolina Division of Public Health (NC DPH) in 2004 to address the need for early event detection and timely public health surveillance in North Carolina using a variety of secondary data sources. These secondary sources include information from local emergency departments, the Carolinas Poison Center, the Pre-hospital Medical Information System (PreMIS), and the NCSU College of

¹ The **International Statistical Classification of Diseases and Related Health Problems** (most commonly known by the abbreviation **ICD**) provides codes to classify [diseases](#) and a wide variety of signs, symptoms, abnormal findings, complaints, social circumstances and external causes of injury or disease. Every health condition can be assigned to a unique category and given a code, up to six characters long. Such categories can include a set of similar diseases.

Veterinary Medicine Laboratories (<http://www.ncdetect.org/>). NC DETECT is developed and maintained by staff at the Department of Emergency Medicine at the University of North Carolina at Chapel Hill with funding by the North Carolina Division of Public Health.

3. Emergency Department Admissions

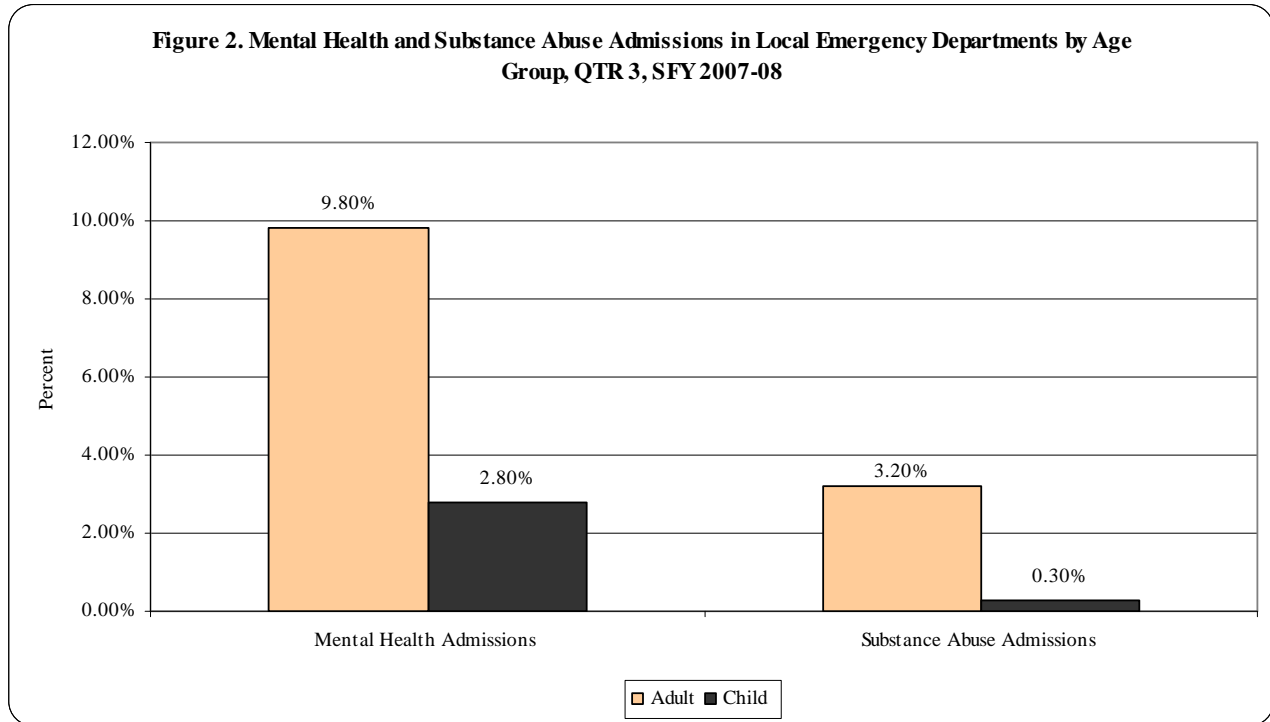
The data presented below (Figure 1) show the total proportion of consumers who were admitted to a community emergency department with a behavioral health (mental health and substance abuse only) diagnosis. The percentage is calculated as a function of the total admissions for all causes to emergency departments (1,031,049 admissions) during the third quarter of SFY 2007-08. The total number of admissions for consumers with a mental health diagnosis during the third quarter of SFY 2007-08 was 85,755. During the same quarter, 26104 consumers were seen in emergency departments for a substance abuse related issue. The percentage of consumer admissions in quarter three of SFY 2007-08 shows very little change from the past two quarter's admissions. There were 8.4% mental health and 2.6% substance abuse admissions compared to 8.8% and 8.2% respectively for mental health and 3.1 and 2.6 % for substance abuse for QTR 1, and QTR 2 of 2007-08. The graph also shows the admissions for all behavioral health causes which include developmental disabilities for the quarter (10.9%).



Source: NC DETECT, QTR 3, SFY 2007-08

Note: Total Admissions include those for Developmental Disabilities.

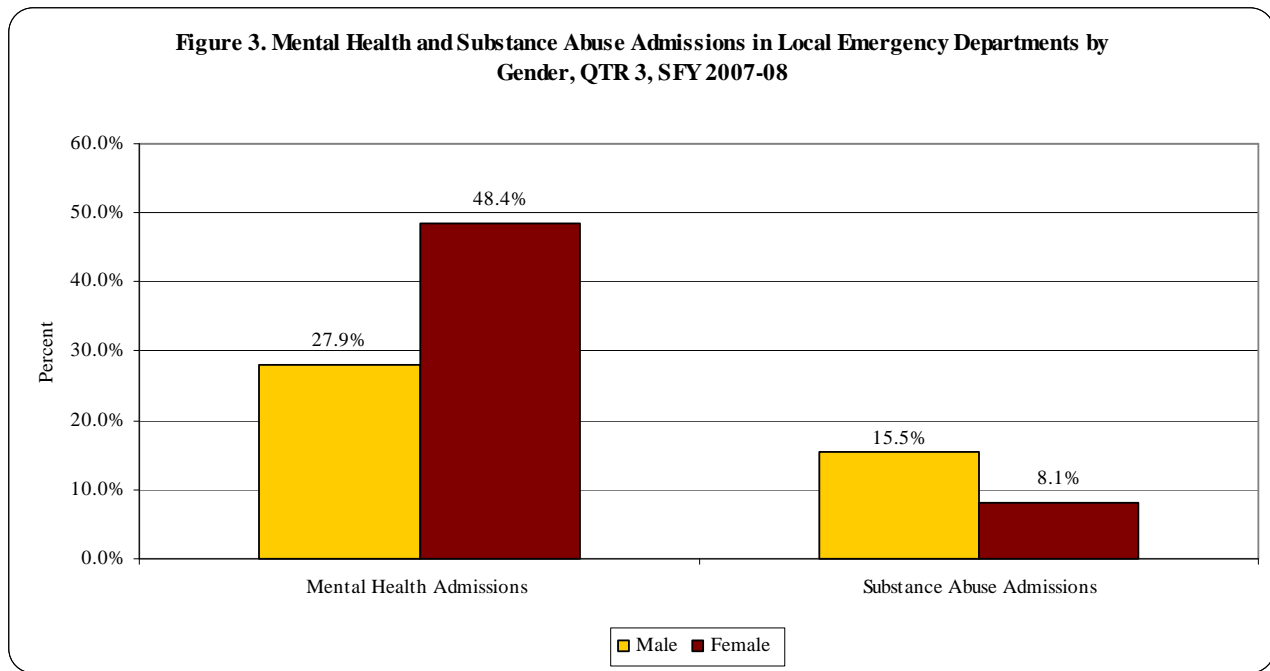
Figure 2, below, shows the percentage of admissions within local emergency departments disaggregated by age group and disability status. This graph shows the proportion of mental health and substance abuse admissions among adults and children as a function of emergency admissions for all causes by age.



Source: NC DETECT QTR 3, SFY 2007-08

Note: Percentages are calculated of total adult admissions and total child admissions separately and not as a proportion of all admissions; for the third quarter of 2007-08 there were 0 child (age ≤ 17 yrs) substance abuse admissions for the following LMEs: Albemarle, Cumberland, Durham, Foothills, Onslow-Carteret and Southeastern Regional

Figure 3 shows the distribution of males and females seeking mental health and substance abuse related care through local emergency departments. There were a higher number of females seeking care for mental health, whereas the percentage of men being admitted for substance abuse related issues were almost double that of women.



Source: NC DETECT QTR 2, SFY 2007-08

Table 1, shown below presents the counts and rates of admission for mental health and substance abuse related concerns during the third quarter of 2008. Rates allow comparison of admissions across Local Management Entities (LME), which provides services to counties with varied population sizes and composition. The statewide rate of admission per 10,000 population for mental health was 94.9 persons for the 3rd quarter, SFY 2008 and the statewide rate for substance abuse admissions was 28.9. Consistent with the past two quarters of data, Western Highlands LME had one of the highest rates of mental health admissions (164.6 per 10,000) while Southeastern Regional (SER) had the highest rate of substance abuse related admission (43.3) for the quarter. Guilford continues to have the lowest rate (58.8 per 10,000 population) for mental health admissions and Wake (20.7) had the lowest rates for substance abuse admissions for the quarter.

Table 1. Emergency Department Admissions by Local Management Entity, QTR 3, SFY 2007-08,

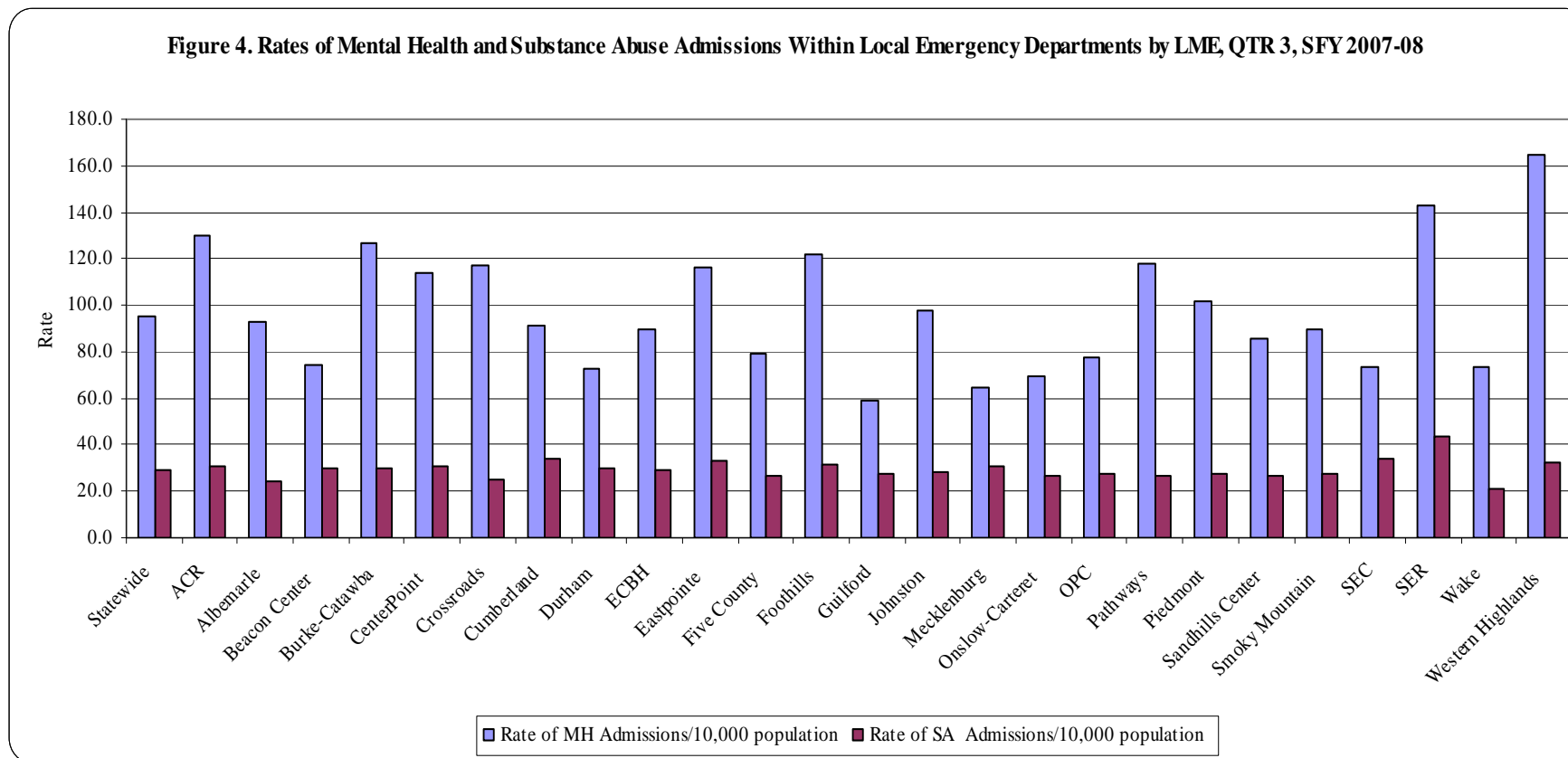
Local Management Entity	Mental Health (n)	Rate of MH Admissions/10,000 population	Substance Abuse (n)	Rate of SA Admissions/10,000 population	Developmental Disabilities (n)	Rate of DD Admissions/10,000 population
Statewide	85755	94.9	26104	28.9	*	*
ACR	3335	129.8	783	30.5	*	*
Albemarle	1720	93.0	445	24.1	*	*
Beacon Center	1810	74.0	738	30.2	*	*
Burke-Catawba	3068	126.4	730	30.1	*	*
CenterPoint	4828	113.6	1317	31.0	*	*
Crossroads	3067	117.0	666	25.4	*	*
Cumberland	2815	91.3	1056	34.3	*	*
Durham	1821	72.4	756	30.0	*	*
ECBH	3530	89.8	1154	29.3	*	*
Eastpointe	3401	116.6	970	33.3	*	*
Five County	1827	79.2	606	26.3	*	*
Foothills	1966	122.2	503	31.3	*	*
Guilford	2684	58.8	1262	27.6	*	*
Johnston	1529	97.5	438	27.9	*	*
Mecklenburg	5570	65.0	2609	30.4	*	*
Onslow-Carteret	1577	69.2	598	26.2	*	*
Orange-Person-Chatham	1721	77.5	605	27.2	*	*
Pathways	4357	117.7	984	26.6	*	*
Piedmont	7102	101.7	1924	27.6	*	*
Sandhills Center	4513	85.2	1411	26.6	*	*
Smoky Mountain	3188	90.0	981	27.7	*	*
Southeastern Center	2482	73.2	1147	33.8	*	*
Southeastern Regional	3652	142.8	1108	43.3	*	*
Wake	6008	73.1	1704	20.7	13	0.2
Western Highlands	8184	164.6	1609	32.4	*	*

Source: NC DETECT, QTR 4, SFY 07

Note: Cells with counts below 10 have been suppressed to protect client confidentiality. The data presented does not include admission information on child substance abuse for Albemarle, Cumberland, Durham, Foothills, Onslow-Carteret and Southeastern Regional

* Abbreviations ACR- Alamance-Caswell-Rockingham; ECBH- East Carolina Behavioral Health

Figure 4 is a graphical presentation of the information presented in table 1, the rate of mental health and substance abuse admissions by Local Management Entities for the third quarter of SFY 2007-08.



Source: NC DETECT QTR 3, SFY 2007-08

Note. For the third quarter of 2007-08 there were 0 child (age ≤ 17 yrs) substance abuse admissions for the following LMEs: Albemarle, Cumberland, Durham, Foothills, Onslow-Carteret and Southeastern Regional

Abbreviations ACR- Alamance-Caswell-Rockingham; ECBH- East Carolina Behavioral Health, OPC-Orange -Person -Chatham, SEC- Southeastern Center, SER-Southeastern Regional

Table 2 presents the counts for mental health and substance abuse admissions disaggregated by age group (adult and child) for each of the 25 Local Management Entities. The table also gives the counts for emergency department admissions for all causes by LME.

Table 2. Emergency Department Admissions by Age Group and LME, QTR 3, SFY 2007-08								
LME	Mental Health		Total Mental Health Admissions	Substance Abuse		Total Substance Abuse Admissions	Total Admissions for MH and SA	Total ED Admissions for all causes
	Adult	Child		Adult	Child			
Total	79598	6157	85755	25654	450	26104	111872	1,031,049
Alamance-Caswell-Rockingham	3090	245	3335	772	11	783	4118	32412
Albemarle	1592	128	1720	445	0	445	2165	20707
Beacon Center	1665	145	1810	727	11	738	2548	35587
Burke-Catawba	2818	250	3068	703	27	730	3798	31531
CenterPoint	4477	351	4828	1294	23	1317	6145	46698
Crossroads	2885	182	3067	653	13	666	3733	36842
Cumberland	2498	317	2815	1056	0	1056	3871	27561
Durham	1699	122	1821	756	0	756	2577	25779
East Carolina Behavioral Health	3210	320	3530	1125	29	1154	4684	47646
Eastpointe	3148	253	3401	954	16	970	4371	37514
Five County	1714	113	1827	593	13	606	2433	32656
Foothills	1817	149	1966	503	0	503	2469	22897
Guilford	2509	175	2684	1238	24	1262	3946	50645
Johnston	1378	151	1529	438	0	438	1967	20285
Mecklenburg	5287	283	5570	2561	48	2609	8179	84334
Onslow-Carteret	1462	115	1577	598	0	598	2175	20413
Orange-Person-Chatham	1581	140	1721	592	13	605	2326	17153
Pathways	3925	432	4357	964	20	984	5341	44101
Piedmont	6515	587	7102	1862	62	1924	9026	79293
Sandhills Center	4219	294	4513	1374	37	1411	5924	66173
Smoky Mountain	3040	148	3188	952	29	981	4169	41699
Southeastern Center	2380	102	2482	1134	13	1147	3629	37158
Southeastern Regional	3358	294	3652	1108	0	1108	4760	40773
Wake	5580	428	6008	1663	41	1704	7725	69333
Western Highlands	7751	433	8184	1589	20	1609	9793	53581

Source: NC DETECT QTR 3 SFY 2007-08

Note. For the third quarter of 2007-08 there were 0 child (age \leq 17 yrs) substance abuse admissions for the following LMEs: Albemarle, Cumberland, Durham, Foothills, Onslow-Carteret and Southeastern Regional

Table 3 shows the counts and associated rates for all behavioral health admissions in local emergency departments or the third quarter of SFY 2007-08.

Table 3. Behavioral Health Admissions in Local Emergency Departments by County, QTR 3, SFY 2007-08					
County	All Behavioral Health Admissions(n)	Rate of Behavioral Health Admissions/per 10,000 Population	County	All Behavioral Health Admissions(n)	Rate of Behavioral Health Admissions/per 10000 Population
Alamance	2255	159.4	Jones	164	157.6
Alexander	510	138.7	Lee	580	102.9
Alleghany	296	266.2	Lenoir	852	146.4
Anson	514	204.7	Lincoln	1194	163.3
Ashe	83	31.8	Macon	248	56.2
Avery	81	44.4	Madison	345	102.1
Beaufort	585	125.1	Martin	69	33.4
Bertie	236	123.0	McDowell	650	267.1
Bladen	434	131.6	Mecklenburg	8189	95.5
Brunswick	1300	129.9	Mitchell	182	114.2
Buncombe	5692	251.7	Montgomery	271	97.8
Burke	1214	136.0	Moore	931	110.9
Cabarrus	3544	216.4	Nash	481	51.7
Caldwell	1319	165.0	New Hanover	2013	107.0
Camden	113	118.2	Northampton	289	134.1
Carteret	1110	172.9	Onslow	1084	66.2
Caswell	182	77.6	Orange	1300	104.0
Catawba	2585	168.5	Pamlico	161	122.6
Chatham	399	67.3	Pasquotank	739	179.9
Cherokee	320	117.1	Pender	329	64.8
Chowan	209	140.1	Perquimans	209	163.8
Clay	65	62.8	Person	665	176.0
Cleveland	2462	254.5	Pitt	1198	80.2
Columbus	794	144.1	Polk	224	116.4

County	All Behavioral Health Admissions(n)	Rate of Behavioral Health Admissions/per 10,000 Population	County	All Behavioral Health Admissions(n)	Rate of Behavioral Health Admissions/per 10000 Population
Craven	1854	191.4	Randolph	1624	115.9
Cumberland	3894	126.3	Richmond	625	133.5
Currituck	210	86.9	Robeson	2726	208.9
Dare	517	147.9	Rockingham	1698	184.6
Davidson	1854	118.4	Rowan	1400	103.0
Davie	389	95.3	Rutherford	1309	207.0
Duplin	530	98.8	Sampson	782	120.7
Durham	2603	103.4	Scotland	837	224.7
Edgecombe	695	132.7	Stanly	512	86.2
Forsyth	5095	150.9	Stokes	676	145.2
Franklin	644	113.6	Surry	1759	240.3
Gaston	1696	84.6	Swain	227	159.6
Gates	53	44.5	Transylvania	415	134.7
Graham	90	110.2	Tyrrell	20	46.6
Granville	520	95.2	Union	1727	94.7
Greene	171	81.5	Vance	325	73.3
Guilford	3948	86.4	Wake	7744	94.2
Halifax	858	155.2	Warren	98	49.3
Harnett	1065	100.6	Washington	25	18.8
Haywood	1344	235.4	Watauga	342	78.1
Henderson	1385	135.2	Wayne	2217	192.6
Hertford	152	63.3	Wilkes	655	97.5
Hoke	324	73.9	Wilson	1209	154.6
Hyde	65	118.4	Yadkin	536	140.2
Iredell	1456	96.6	Yancey	262	140.9
Jackson	426	115.4	Statewide	112234	124.1
Johnston	1977	126.0			

Source: NC DETECT, QTR 3, SFY 07-08

APPENDIX

Appendix A. List of Hospitals Contributing Data to NC DETECT (April 30, 2008)

As of April 30, 2008, there are 110/112 (98%) hospitals submitting production-level data on a daily basis to NC DETECT.

Alamance	Burlington/Alamance
Albemarle	Elizabeth City/Pasquotank
Alleghany	Sparta/Alleghany
Angel	Franklin/Macon
Annie Penn	Reidsville/Rockingham
Anson	Wadesboro/Anson
Ashe	Jefferson/Ashe
Beaufort	Washington/Beaufort
Bertie	Windsor/Bertie
Betsy Johnson	Dunn/Harnett
Bladen	Elizabethtown/Bladen
Blowing Rock	Blowing Rock/Watauga
Blue Ridge Regional (formerly Spruce Pine)	Spruce Pine/Mitchell
Brunswick	Supply/Brunswick
Caldwell	Lenoir/Caldwell
Charles A. Cannon	Linville/Avery
Cape Fear Valley	Fayetteville/Cumberland
Carteret	Morehead City/Carteret
Catawba Valley	Hickory/Catawba
Central Carolina	Sanford/Lee
Chatham	Siler City/Chatham
Chowan	Edenton/Chowan
Cleveland	Shelby/Cleveland
CMC	Charlotte/Mecklenburg
CMC Mercy	Charlotte/Mecklenburg
CMC Pineville	Charlotte/Mecklenburg
CMC Univ	Charlotte/Mecklenburg
Columbus	Whiteville/Columbus
Craven	New Bern/Craven
Davie	Mocksville/Davie
Davis	Statesville/Iredell
Dosher	Southport/Brunswick
Duke	Durham/Durham
Duke Raleigh	Raleigh/Wake
Duplin	Kenansville/Duplin
Durham Regional	Durham/Durham
FHS Montgomery	Troy/Montgomery
FHS Moore	Pinehurst/Moore
FHS Richmond	Rockingham/Richmond
Forsyth	Winston-Salem/Forsyth
Franklin	Louisburg/Franklin

Alamance	Burlington/Alamance
Frye	Hickory/Catawba
Frye Alexander	Taylorsville/Alexander
Gaston	Gastonia/Gaston
Grace	Morganton/Burke
Granville	Oxford/Granville
Halifax	Roanoke Rapids/Halifax
Harris	Sylva/Jackson
Haywood	Clyde/Haywood
Heritage	Tarboro/Edgecombe
High Point	High Point/Guilford
Highlands	Highlands/Macon
Hoots	Yadkinville/Yadkin
Hugh Chatham	Elkin/Surry
Iredell	Statesville/Iredell
Johnston	Smithfield/Johnston
Kings Mountain	Kings Mountain/Cleveland
Lake Norman	Mooreville/Iredell
Lenoir	Kinston/Lenoir
Lexington	Lexington/Davidson
Lincoln	Lincolnton/Lincoln
Margaret Pardee	Hendersonville/Henderson
Maria Parham	Henderson/Vance
Martin	Williamston/Martin
McDowell	Marion/McDowell
Mission	Asheville/Buncombe
Morehead	Eden/Rockingham
Moses Cone	Greensboro/Guilford
Murphy	Murphy/Cherokee
Nash	Rocky Mount/Nash
NCBH	Winston-Salem/Forsyth
New Hanover	Wilmington/New Hanover
Northeast	Concord/Cabarrus
Northern Surry	Mt. Airy/Surry
Onslow	Jacksonville/Onslow
Our Community	Scotland Neck/Halifax
Outer Banks	Nags Head/Dare
Park Ridge	Fletcher/Henderson
Pender	Burgaw/Pender
Person	Roxboro/Person
Pitt	Greenville/Pitt
Presbyterian	Charlotte/Mecklenburg
Presbyterian Huntersville	Huntersville/Mecklenburg
Presbyterian Matthews	Matthews/Mecklenburg
Pungo	Belhaven/Beaufort

Alamance	Burlington/Alamance
Randolph	Asheboro/Randolph
Rex	Raleigh/Wake
Roanoke Chowan	Ahoskie/Hertford
Rowan	Salisbury/Rowan
Rutherford	Rutherfordton/Rutherford
Sampson	Clinton/Sampson
Sandhills	Hamlet/Richmond
Scotland	Laurinburg/Scotland
Southeastern	Lumberton/Robeson
St Luke	Columbus/Polk
Stanly	Albemarle/Stanly
Stokes Reynolds	Danbury/Stokes
Swain	Bryson City/Swain
Thomasville	Thomasville/Davidson
Transylvania	Brevard/Transylvania
UNCH	Chapel Hill/Orange
Union	Monroe/Union
Valdese	Valdese/Burke
WakeMed Apex	Apex/Wake
WakeMed Cary	Cary/Wake
WakeMed North	Raleigh/Wake
WakeMed Raleigh	Raleigh/Wake
Washington	Plymouth/Washington
Watauga	Boone/Watauga
Wayne	Goldsboro/Wayne
Wesley Long	Greensboro/Guilford
Wilkes	North Wilkesboro/Wilkes
Wilson	Wilson/Wilson